The City of Grand Rapids Water System



Attention: This report will not be mailed to you. If you want a paper copy, please call our Customer Service at 311 or 616.456.3000.

Atención: Este reporte no será enviado por correo. Para tener una copia enviada a usted, por favor de llamar la linea de servicio al cliente al 311 o 616.456.3000.

To ensure that tap water is safe to drink, Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public water supplies. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health. More information about contaminants and potential health effects can be obtained by calling the United States EPA's Safe Drinking Water Hotline 800.426.4791.

Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people may seek advice about drinking water from their health care providers. The Environmental Protection Agency (EPA)/ Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline 800.426.4791.

Is my water safe?

Yes. The City of Grand Rapids meets or exceeds all of the requirements of the Safe Drinking Water Act (SDWA). We are pleased to present the 2020 Water Quality Report (Consumer Confidence Report) as required by the SDWA. This report is designed to provide details about where your water comes from, what it contains and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because we care about you and want you to be informed about the water you drink.

Where does my drinking water come from?

Lake Michigan, a surface water source, is the sole source of water treated for the Grand Rapids Water System.

Source Water Assessment

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) completed a Source Water Assessment for the City of Grand Rapids water supply in 2003. This report found that our water supply has a moderately high susceptibility to contaminants. Source water contamination is not likely to occur if potential contaminants are properly used and managed. The Grand Rapids Water Treatment Plant routinely and continuously monitors the water for a variety of chemicals to ensure safe drinking water. The Grand Rapids Water System continues to be involved in and supports watershed protection efforts.

This report is available. For a copy, please call our Customer Service at 311 or 616.456.3000.

Why are there contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include all of the following:

Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

Additional Information for Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Grand Rapids is responsible for providing high-quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your water tested.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline 800.426.4791 or at http://www.epa.gov/safewater/lead.

The City of Grand Rapids Water System has a total of 80,443 service lines. There are 24,189 known lead or presumed lead service lines.

How can I get involved?

Call Customer Service at 311 or 616.456.3000.

Take a Lake Michigan Filtration Plant Tour!



We encourage you to tour our treatment plant located on Lake Michigan Drive between Holland and Grand Haven. You can take a walking tour of the facility to learn more about the people and processes that diligently safeguard your water supply. To schedule a tour, please call 311 or 616.456.3000.

For more information please contact:

City of Grand Rapids Customer Service 300 Monroe Ave NW

Grand Rapids, MI 49503 Phone: 311 or 616.456.3000

Email: water@grcity.us

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m T}$ o ensure tap water is safe to drink, the EPA has regulations that limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report, unless otherwise noted. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old. In this table, you may find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions.

	MCLG	MCL, TT, or MRDL	Detected In Your Water	Range					20 2 M 21
Contaminants	or MRDLG			Low	High	Sample Date	Violation	Typical Source	
Disinfectants & Disinfection	By-Products								GRAND RAPIDS
There is convincing evidence that	addition of a dis	infectant is ne	ecessary for control of n	nicrobial con	taminants.				Water System
Chlorine [as Cl2] (ppm)	4	4	1.02	ND	1.70	2020	No	Water additive used to control microbes	
Haloacetic Acids Group [HAA5] (ppb)	NA	60	36	12.2	61.8	2020	No	By-product of drinking water chlorination	Important Drinking Wate Definitions & Units
Total Trihalomethanes [TTHMs] (ppb)	NA	80	56	29.9	89.8	2020	No	By-product of drinking water chlorination	90th Percentile:
Inorganic Contaminants									The minimum level of contamination for the highest 10 percent of samples collect
Barium (ppm)	2	2	0.019	NA	NA	2018	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	AL (Action Level): The concentration of a contaminant that exceeded, triggers treatment or other
Fluoride (ppm)	4	4	0.51	0.28	0.64	2020	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	requirements that a water system must a MCL (Maximum Contaminant Leve The highest level of a contaminant that it
Nitrate [as Nitrogen] (ppm)	10	10	0.4	NA	NA	2019	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	allowed in drinking water. MCLs are set to the MCLGs as feasible using the best available treatment technology. MCLG (Maximum Contaminant Le
Perfluorooctane sulfonic acid [PFOS] (ppt)	NA	16	1.65	ND	2.34	2020	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities	Goal): The level of a contaminant in drinking v below which there is no known or expect
Perfluorooctanoic acid [PFOA] (ppt)	NA	8	0.52	ND	2.10	2020	No	Discharge and waste from industrial facilities; stain-resistant treatments	to health. MCLGs allow for a margin of s MNR: Monitored Not Regulated
Sodium (ppm)	NA	NA	11	NA	NA	2020	No	Erosion of natural deposits	MRDL (Maximum Residual Disinfo
Unregulated Contaminants									Level): The highest level of a disinfectant allower.
Information collected through the monitoring of these contaminants/chemicals will help to ensure that future decisions on drinking water standards are based on sound science.									drinking water. There is convincing evidenthat addition of a disinfectant is necessa
Brominated Haloacetic Acids Group[HAA6Br] (ppb)	NA	MNR	11.6	6.08	17.63	2019	No	By-product of drinking water chlorination	control of microbial contaminants. MRDLG (Maximum Residual Disinfectant Level Goal):
Haloacetic Acids Group [HAA9] (ppb)	NA	MNR	41.47	19.22	77.73	2019	No	By-product of drinking water chlorination	The level of a drinking water disinfectan which there is no known or expected ris
Manganese (ppb)	NA	MNR	0.446	ND	0.446	2019	No	Naturally-occurring element; used in steel production, fertilizer, batteries and fireworks; essential nutrient	health. MRDLGs do not reflect the bene the use of disinfection to control microb contaminants.
Microbiological Contaminar	ıts				_				NTU (Nephelometric Turbidity Un Turbidity is a measure of the cloudiness
Turbidity (NTU)	NA	0.3	100%	NA	NA	2020	No	Soil runoff	water. We monitor it because it is a good indicator of the effectiveness of our filtra
100% of the samples were bel excess of 1 is a violation unles	ow the TT values otherwise ar	ue of 0.3. A	value less than 95%	constitutes	a TT violat	tion. The high	hest single mea	surement was 0.110. Any measurement in	system.
excess of 1 is a violation united	ss otherwise ap	pproved by ti	ine state.	Ra	ınge		# Samples		NA: Not applicable
Contaminants	MCLG	AL	90 th Percentile	Low	High	Sample Date	Exceeding AL	Typical Source	ND: Not detected
Inorganic Contaminants	MCEG	, TE	1 Creentine	Low	·	Date	<u> </u>	Typical Source	NR: Monitoring not required but recommended
Copper [action level at consumer taps] (ppm)	1.3	1.3	0	ND	0.1	2020	0	Corrosion of household plumbing systems; erosion of natural deposits	ppm (parts per million): Number of milligrams of substance in one liter of w (mg/L)
Lead [action level at consumer taps] (ppb)	0	15	9	ND	13	2020	0	Lead services lines, corrosion of household plumbing including fittings and fixtures; erosion of natural deposits	ppb (parts per billion): Number of micrograms of substance in one liter of $(\mu g/L)$
These 2020 sample results are	from 51 home	es selected a	s high risk for lead a	nd copper o	contaminati	on.			ppt (parts per trillion): Number of
	MCLG or	MCL, T			ange	Sample	X7. 1	m + 10	nanograms of substance in one liter of w (ng/L)
Contaminants Voluntary Monitoring	MRDLG	MRD	L Water	Low	High	Date	Violation	Typical Source	TT (Treatment Technique): A required process intended to reduce the
Information collected through the	monitoring of th	ese contamina	ants/chemicals will help	to ensure the	at future deci	sions on drinki	ing water standard	ds are based on sound science.	of a contaminant in drinking water
Arsenic (ppb)	0	10	ND ND	NA NA	NA NA	2020	No No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	
Chromium-6 [hexavalent chromium] (ppb)	NA	MNF	R ND	NA	NA	2020	NR	Erosion of natural deposits; industrial contaminant	Note: The data table contains the lannual test results for all required a voluntary monitoring of regulated
Cryptosporidium	0	TT	ND	NA	NA	2020	NR	Contaminated rivers and lakes	substances. The Grand Rapids Wat System monitors many regulated a
Giardia lamblia	0	TT	ND	NA	NA	2020	NR	Contaminated rivers and lakes	unregulated substances more frequency than required and, as a consequency
Mercury [inorganic] (ppb)	2	2	ND	NA	NA	2020	No	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland	these results are included in the tal addition to the test results listed in table, we analyzed the water for 108
Hexafluoropropylene oxide dimer acid [HFPO-DA] (ppt)	NA	370	ND	NA	NA	2020	No	Discharge and waste from industrial facilities utilizing the Gen X chemical process	different contaminants/chemicals i 2020; none of which were found at detectable levels.
Perfluorobutane sulfonic acid [PFBS] (ppt)	NA	420	ND	NA	NA	2020	No	Discharge and waste from industrial facilities; stain-resistant treatments	
Perfluorohexane sulfonic acid [PFHxS] (ppt)	NA	51	ND	NA	NA	2020	No	Firefighting foam; discharge and waste from industrial facilities	0
Perfluorohexanoic acid [PFHxA] (ppt)	NA	400,00	00 ND	NA	NA	2020	No	Firefighting foam; discharge and waste from industrial facilities	13

NA

[PFNA] (ppt)

Perfluorononanoic acid

6

NA

2020

No

compounds

Discharge and waste from industrial

facilities; breakdown of precursor



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tamination found in samples collected.

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Furbidity Units): the cloudiness of the use it is a good ess of our filtration

1): Number of one liter of water

in one liter of water

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ed to reduce the level ng water

contains the highest all required and of regulated Rapids Water y regulated and es more frequently a consequence, ded in the table. In ults listed in the water for 108 s/chemicals in ere found at